

INFORMATION REPORT

CD NO.

DATE DISTR. 11 JUL 50

NO. OF PAGES 1

NO. OF ENCLS.
(LISTED BELOW)

SUPPLEMENT TO
REPORT NO.

COUNTRY Germany (Russian Zone)

SUBJECT Turbine Blade Production at
the Kabelwerk Oberspree

PLACE
ACQUIRED

DATE OF
INFO.

50X1-HUM

THIS DOCUMENT CONTAINS INFORMATION AFFECTING THE NATIONAL DEFENSE
OF THE UNITED STATES WITHIN THE MEANING OF THE ESPIONAGE ACT 50
U.S.C. 31 AND 32. ITS TRANSMISSION OR THE REVELATION
OF ITS CONTENTS IN ANY MANNER TO AN UNAUTHORIZED PERSON IS PRO-
HIBITED BY LAW. REPRODUCTION OF THIS FORM IS PROHIBITED.

THIS IS UNEVALUATED INFORMATION

50X1-HUM

1. Pressed turbine blades are produced at the Kabelwerk Oberspree with the aid of eleven screw-presses weighing between 8 and 15 tons and producing between 75 and 150 tons pressure. Only three of the presses are actually required; the remaining eight are held in reserve. Angle-lever 10-ton presses, more suitable for the task, are not available and are not likely to be provided as the Soviet control staff considers them unnecessary.
2. It is reported that 100,000 turbine blades up to 150 millimeters are produced per month. It is hoped that in 1951 it will be possible to press blades up to a length of 500 millimeters.
3. The life of the dies presently in use is a short one; generally between 250 and 500 blades can be pressed from a set before they have to be replaced. The renewal, however, is cheap and easily accomplished with the aid of a "Pfaen". Only improved steel could lengthen the life of the dies, but so far no such steel has become available for the purpose.
4. Turbine blades are pressed in one piece, and the finished blade emerges from the die with a first-class polished surface which, however, is not shiny but has a rather browned appearance. The blade after pressing is simply trimmed, but at the base a protruding edge is left to insure a correct and firm mounting to prevent blade breakages. No special heat treatment is given the finished blade. Laboratory examinations have shown that the blade steel has not been adversely affected by the pressing process but, in fact, has been somewhat improved in quality.

50X1-HUM

CONFIDENTIAL

CLASSIFICATION

SECRET/CONTROL - U.S. OFFICIALS ONLY

STATE	<input checked="" type="checkbox"/>	NAVY	<input checked="" type="checkbox"/>	NSRB															
ARMY	<input checked="" type="checkbox"/>	AIR		FBI															

50X1-HUM

Document No. 006
No Change in Class. ☐
☐ Declassified
Class. Changed To: TS S
Auth.: HR 70-2
Date: 13 June 78 By